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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,848 01/05/2004		Kee Tae Um	K-0601	2483	
34610 75	590 11/17/2005		EXAMINER		
FLESHNER & KIM, LLP		RODRIGUEZ, ARMANDO			
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT	PAPER NUMBER	
			2828		

DATE MAILED: 11/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
Office Action Summary		10/750,8	48	UM, KEE TAE					
		Examine	r	Art Unit					
		ARMAND	O RODRIGUEZ	2828					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nations of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commun period for reply is specified above, the maximum stature to reply within the set or extended period for reply within th	ILING DATE OF TI 37 CFR 1.136(a). In no ex- nication. utory period will apply and w ill, by statute, cause the app	HIS COMMUNICATION rent, however, may a reply be tir rill expire SIX (6) MONTHS from blication to become ABANDONE	N. mely filed the mailing date of this of (35 U.S.C. § 133).					
Status									
1)	Responsive to communication(s) filed	on .							
2a)□)⊠ This action is r	ion-final.		•				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	on of Claims								
4)⊠	• 4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.								
,	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	5) Claim(s) is/are allowed.								
6)⊠)⊠ Claim(s) <u>1-12</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	8) Claim(s) are subject to restriction and/or election requirement.								
Applicat	on Papers								
9)[The specification is objected to by the	Examiner.							
10)⊠ The drawing(s) filed on is/are: a)□ accepted or b)⊠ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (ınder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
			,						
Attachmen	t(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTC		Paper No(s)/Mail Da	ate	0.450)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/12/2005. 5) Notice of Informal Patent Application (PTO-152) 6) Other:									

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DETAILED ACTION

Response to Amendment

Applicant's preliminary amendment filed on January 5, 2004 has been acknowledged.

Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Drawings

The drawings are objected to because the illustrated element numbers of figure 3 do not correspond with the element numbers of the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If

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the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 2, 6, 8 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the pumping lights" in line 5. There is insufficient antecedent basis for this limitation in the claim. The recited limitation implies more than one pumping light, however applicant has only defined one pumping light generated by the first laser chip.

Regarding claim 2,

Applicant has failed to define AR, HR and PR within the claim language.

Claim 6 recites the limitation "the predetermined surface" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Regarding claim 6,

It is not within the claim language, how the parallel components are obtained. Are the parallel components, formed by the focusing lens? Are the parallel components, formed by the predetermined surface? The examiner will interpret the parallel

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components as being an inherent characteristic of the lens and will also interpret the predetermine surface as the solid-state medium.

Claim 8 recites the limitation "the laser material" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Regarding claim 8,

Applicant has failed to define PR within the claim language.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Baer (US 5,181,223).

Regarding claim 1,

Baer illustrates in figure 2 a solid-state laser having diode bars (24) [applicant's first and second laser chip], which are offset relative to each other [applicant's slightly slanted], also illustrates fiber lenses (28) [applicant's first and second focusing lens] and solid-state medium (12) [applicant's pumping medium] for emitting a laser beam.

Regarding claim 6,

The fiber lens inherently collimates (focuses) diverging light from the laser diodes, which include perpendicular and parallel components.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baer (US 5,181,223).

Regarding claim 7,

Baer illustrates in figure 2 a solid-state laser having diode bars (24) [applicant's first and second laser diode], which are offset relative to each other [applicant's slightly slanted], also illustrates fiber lenses (28) [applicant's first and second focusing lens] and solid-state medium (12) [applicant's pumping medium] for emitting a laser beam.

Baer does disclose the use of lenses, but is silent as to the fiber lenses being a lens array.

However, figure 13 illustrates the use of an array of lenses (92) as described in column 13 lines 17-21.

Therefore, it would have been obvious to person of ordinary skill to combine the array lenses of figure 13 with the solid-state laser of figure 2 because it will direct the radiation from each pump source into the solid-state medium, column 13 lines 22-23.

Regarding claim 12,

The lenses (92) inherently collimates (focuses) diverging light from the laser diodes, which include perpendicular and parallel components.

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Allowable Subject Matter

Claims 2-5 and 8-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ARMANDO RODRIGUEZ

Examiner Art Unit 2828